Earth Science

Semi-Automatic Science Workflow Synthesis for High-End Computing on the NASA Earth Exchange



Completed Technology Project (2012 - 2015)

Project Introduction

Enhance capabilities for collaborative data analysis and modeling in Earth sciences.

Develop components for automatic workflow capture, archiving and management.

Enable workflow migration between commodity systems and supercomputer environment at NASA.

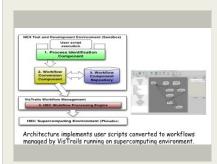
Anticipated Benefits

SMAP

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
★NASA	Lead	NASA	Washington,
Headquarters(HQ)	Organization	Center	District of Columbia
Ames Research Center(ARC)	Supporting	NASA	Moffett Field,
	Organization	Center	California



Project Image Semi-Automatic Science Workflow Synthesis for High-End Computing on the NASA Earth Exchange

Table of Contents

Project Introduction	1
Anticipated Benefits	1
Primary U.S. Work Locations	
and Key Partners	1
Images	2
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	2
Target Destination	3



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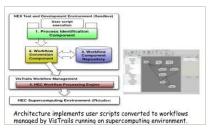


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Primary U.S. Work Locations

California

Images



11021-1360181448186.jpg

Project Image Semi-Automatic Science Workflow Synthesis for High-End Computing on the NASA Earth Exchange (https://techport.nasa.gov/imag e/1615)

Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

NASA Headquarters (HQ)

Responsible Program:

Earth Science

Project Management

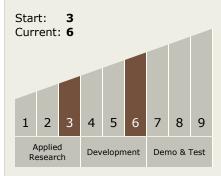
Program Director:

George J Komar

Principal Investigator:

Ramakrishna R Nemani

Technology Maturity (TRL)



Technology Areas

Primary:

Continued on following page.



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Completed Technology Project (2012 - 2015)

Technology Areas *(cont.)*

- TX11 Software, Modeling, Simulation, and Information Processing
 - ☐ TX11.4 Information Processing
 - ☐ TX11.4.4 Collaborative Science and Engineering

Target Destination Earth

